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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,216	11/19/2003	Scott Salys	A03P1076	9041

36802 7590 06/03/2005

PACESETTER, INC.
15900 VALLEY VIEW COURT
SYLMAR, CA 91392-9221

EXAMINER

FAULCON JR, LENWOOD

ART UNIT	PAPER NUMBER
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3762

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/718,216

Applicant(s)

SALYS ET AL.

Examiner

Lenwood Faulcon, Jr.

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 March 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doan et al. (U.S. Patent No. 5,456,708) in view of Hoff (U.S. Patent No. 5,522,872).

Doan et al. teaches of an implantable flexible lead assembly, comprising a screw-in helix electrode for extending and contracting (col. 2 lines 64-67), a flexible electrically conductive coil housed within an insulating tube (col. 4 lines 41-44), a radiopaque ring (collar) at the distal tip of the lead (col. 3 lines 1-4). Doan et al. further teaches of the radiopaque ring being fabricated of a biocompatible, biostable metallic such as a platinum/iridium alloy. Doan et al. also teaches of a helical shaft being electrically and mechanically coupled to a rotatable connector pin (col. 4 lines 41-44), in which the connector pin effectuates lead fixation or removal (col. 2 lines 23-27). Doan et al. further teaches that it is well known in the art that in conductors couple connector pins to electrodes (col. 1 lines 38-41). Doan et al. also teaches that the helix electrode may be made of a platinum/iridium alloy, which is inherently a radiopaque material.

Hoff teaches of an electrode-conductor sleeve joint for a cardiac lead that comprises a conductor made from a multifilar coil of drawn filled tubing (col. 4 lines 50-53). Hoff further teaches that the drawn filled tubing is composed of a flexible, hollow

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tube, made of MP35N (col. 4 lines 54-58). Hoff also teaches that the conductor may be surrounded by an insulator (col. 4 lines 53-54).

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Doan et al. and Hoff to have a flexible electrically conductive coil made of an electrically conductive polymer or MP35N, in order to facilitate movement of the lead and to allow electricity to flow along the lead. Doan et al. and Hoff both teach of medical leads for electrical stimulation, and thus teach of analogous arts. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the lead as taught by Doan et al. by including an inner header part that is an electrically conductive material such as that as taught by Hoff for enhanced electricity flow along the lead.

Although Hoff does not explicitly state the use of a collar, as Applicant acknowledges Hoff does teach of a laser welding for connection purposes, which is also described in Applicant's specification (paragraph 23). It is inherent in the device as taught by Hoff that some type of collar is used for connection purposes. Further, the conductor as taught by Hoff has the electrically conductive properties as claimed by the Applicant. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the device as taught by Doan et al. in using a laser welding for connection purposes and further using electrically conductive material for enhanced electricity flow along the lead. Further, electrically conductive polymers and MP35N are inherently transparent fluoroscopically. Therefore, it would have been obvious to one

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having ordinary skill in the art at the time of the invention to combine the teachings of Doan et al. and Hoff to have the limitations of claims 1-21.

Response to Arguments

3. Applicant's arguments filed March 14, 2005 have been fully considered but they are not persuasive. For the reasons set forth above, the combination of Doan et al. and Hoff render claims 1-21 unpatentable.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bisping (U.S. Patent No. 4,106,512), Morris (U.S. Patent No. 5,374,286), Li (U.S. Patent No. 5,716,390).

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lenwood Faulcon, Jr. whose telephone number is 571-

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272-6090. The examiner can normally be reached on Monday-Thursday from 9 to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D. Sykes, can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Lenwood Faulcon, Jr.



George Manuel

Primary Examiner